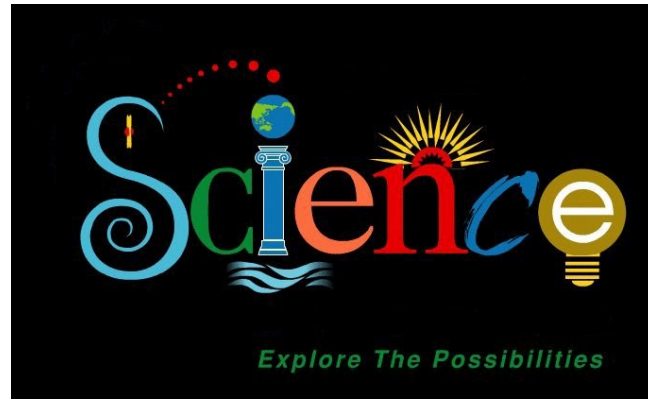




Earth Science Freshman



Mr. Springer



Earth Science
Water and Weather

Name _____
Per _____

Fill in the blank with the best answer.

1. The mass of water present in the air compared to the maximum possible at a certain temp is called _____ humidity.
2. Relative temperature of the sky and ground determines the _____ in an air mass
3. The main process that adds water to the air is _____.
4. Air that has vertical movement is _____ air.
5. Stable air will produce _____ clouds.
6. Clouds that precipitate contain the word _____ as part of their name.
7. A(n) _____ is a large body of air that has stalled in a windless area.
8. Very high clouds are made of _____, (2 words)
9. Adiabatic temperature changes are due to _____ changes.
10. Hurricanes are the result of an air mass with very _____ pressure being formed.

Mark + for true or 0 for false and correct false statements.

11. Plants add moisture to the air.
12. Stratus clouds may become very high and fluffy looking.
13. Hail occurs because of strong updrafts.
14. Vertical air movements form cumuliform clouds.
15. Less humidity is required to make rain than to form clouds.
16. Thunderstorms form in stable conditions.
17. Cooling to condensation may occur near the surface of the Earth.
18. Orographic lifting often forms stratus clouds.
19. Dew point occurs when the relative humidity is at 0%.
20. Tornadoes are caused by an intense high pressure system.

21. List and describe the three musts for cloud formation on the ground or in the air. (6 pts)

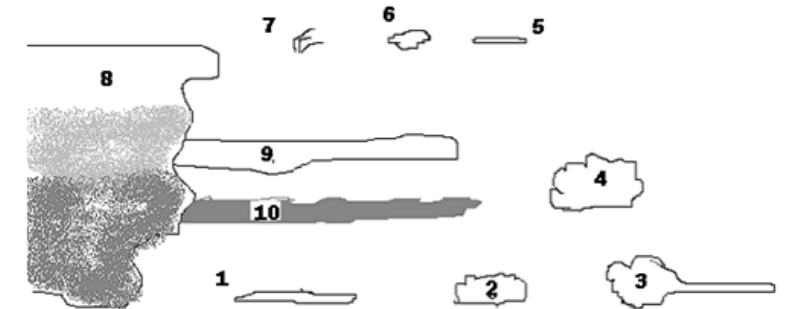
22. Explain how dew and fogs form. (2 pts. each)

23. Compare and explain the difference in the steepness, cloud type and precipitation type of cold and warm fronts. (6pts)

24. Thoroughly explain the main cause of the skies in an air mass. (4 pts)

25. Explain how tornadoes form and why so many occur in tomado alley. (4pts)

Write the correct name of the cloud type in the blank behind the corresponding letter. (1pt ea)



- | | |
|----------|-----------|
| 1. _____ | 2. _____ |
| 3. _____ | 4. _____ |
| 5. _____ | 6. _____ |
| 7. _____ | 8. _____ |
| 9. _____ | 10. _____ |